

REMARKS

The amendments to the specification, claims and newly drafted Claims 21-28 are in accordance with a Rule 34 Amendment submitted during the prosecution of the International Application. They are within the scope of the original invention and do not add any new subject matter.

If the Examiner believes that a telephone interview will help further the prosecution of this case, he is respectfully requested to contact the undersigned attorney at the listed telephone number.

Very truly yours,

PRICE AND GESS



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VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE SPECIFICATION:

The paragraph beginning on page 1, line 21, has been amended as follows:

--As shown in this drawing, a bend-up-less type deflection yoke 6 is composed of a saddle-shaped horizontal deflection coil 11 mounted along the inner surface of an insulating frame 13, and a saddle-shaped vertical deflection coil 12 mounted along and sandwiched between the outer surface of the insulating frame 13 and a ferrite core 14, and the deflection yoke 6 has a structure in which an electron gun side bend portion 17 of the horizontal deflection coil 11 and the vertical coil 12 (the section in the drawing surrounded by a broken line) substantially lines the outer surface of a CRT funnel 4. Please note that reference numeral 15 in the drawing designates a correction coil which corrects so-called VCR (vertical coma residual) and side beams (R,B) vertical line horizontal mis-convergence that occurs and is provided on the outer surface slightly forward in the electron beam emission direction from a main lens 51 of an electron gun 5. Reference numeral 31 in the drawing designates a member for fixing the correction coil 15 known as a back cover or a small cover (hereafter "back cover 31"), the function of which will be described later.—

The paragraph beginning on page 7, line 16, has been amended as follows:

----FIG. 8 is a pattern drawing of vertical line horizontal mis-convergence which occurs in the side beams (R,B) [mis-convergence of vertical coma residual (VCR)];--

The paragraph beginning on page 7, line 18, has been amended as follows:

--FIG. 9 is a pattern drawing of mis-convergence of vertical coma residual (VCR) [vertical mis-convergence which occurs in the side beams (R,B)];--

The paragraph beginning on page 12, line 20, has been amended as follows:

--Each correction coil 15 in the present mode, as shown in FIG. 7, is a conductive wire 24 wound around the U-shaped ferrite core 22, and generates a six-pole magnetic field synchronizing a vertical deflection and performs optimum correction of a VCR of a pattern shown in FIG. 9 [8]. In addition, other conductive wire is further wound around each of the correction coils 15, controlling the magnetic field of the conductive wire and, the correction coils 15 also performs the function of generating a four-pole magnetic field in the same cores 22 and correcting vertical line horizontal mis-convergence of side beams (R,B) shown in the pattern in FIG. 8 [9]. The working of the correction coil 15 itself is already well known, therefore an explanation will be omitted. However the correction coil 15 may be structured to correct either one or both of the above-described VCR and vertical line horizontal mis-convergence.—

The paragraph beginning on page 13, line 12, has been amended as follows:

--An E-shaped ferrite core 29, as shown in FIG. 10, having conductive wire 24 wound around each leg portion may be used as the correction coil 15. When this kind of E-shaped core 29 is used, as is shown in an example of the structure in FIG. 11, it is desirable to mount a correction coil 15 on both the right side and the left side as seen from the screen side. This case is the same as when the U-shaped core 22 is used in that the correction coil 15 can be constructed to correct the VCR and the vertical line horizontal mis-convergence of the side beams (R,B) by winding different conductive wires around the ferrite core 29 and controlling the magnetic field.--

The paragraph beginning on page 17, line 21, has been amended as follows:

--In addition, the applicable range of the present invention is not limited to self convergence system deflection yokes. Even in deflection yokes other than those of the self

convergence system, it is possible that it is necessary to set some kind of correction coil at the electron gun side bend portion of the deflection coil, and the technique of the present invention can be applied in such cases. Consequently, the correction coil 15 is not limited to correcting VCR and side beam vertical line horizontal mis-convergence, but can be applied to various correction coils.--

Claims 2, 13, 14, 16, 19, 20 have been cancelled without prejudice.

The claims have been amended as follows:

1 1. (Amended) A deflection yoke of a bend-up-less type comprising a saddle-shaped
2 horizontal deflection coil, a saddle-shaped vertical deflection coil, an insulating frame, and a
3 correction coil, the saddle-shaped horizontal deflection coil and the saddle-shaped vertical
4 deflection coil being provided along, respectively, an inner and an outer surface of the insulating
5 frame which insulates the deflection coils, and the correction coil being provided above the outer
6 surface of an electron gun side bend portion of the deflection coils, wherein

7 a setting member is provided integrally formed in a fixed positional relation with
8 respect to the insulating frame on the electron gun side and behind the bend portion of the
9 deflection coils, and the correction coil is set at a fixed position by a positioning fixing member
10 in front of [on] a wall surface of the setting member which faces the screen and above the outer
11 surface of the electron gun side bend portion.

1 3. (Amended) The deflection yoke of Claim 1 [or 2] wherein
2 the positioning fixing member [correction coil] is structured to be freely
3 detachable in relation to the setting member.

4. (Amended) The deflection member yoke of Claim 1 [or 2] wherein
the correction coil has (a) a core whose leg portion points in a direction toward
electron gun side bend portion of the deflection coil, and (b) a bobbin which covers the core
conductive wire wound therearound; and [(c) a fixing member in a substantially fixed
position to the core; and

6 the correction coil is positioned by the fixing member being fixed to the setting
7 member]

8 the positioning fixing member is set at a substantially fixed position in relation to
9 the core.

1 5. (Amended) The deflection yoke of Claim 4 wherein

2 the setting member has a notch, and

3 the positioning fixing member has a claw portion which is interlocked with the notch.

1 7. (Amended) The deflection yoke of Claim 4 wherein

2 the positioning fixing member has a protruding portion which is inserted in an
3 insertion aperture provided in the setting member.

1 8. (Amended) The deflection yoke of Claim 4 wherein

2 the positioning fixing member has a fitting portion which is fitted into a slot
3 provided in the setting member.

1 9. (Amended) The deflection yoke of Claim 4 wherein
2 a flange portion is provided at both ends of the bobbin, an edge of each flange
3 portion contacting [contacts] the setting member[, and positioning of the correction coil is
4 performed in relation to the setting member].

1 15. (Amended) A color picture tube having (a) an outer envelope composed of a
2 front panel formed with a phosphor screen surface on an inner surface, and a funnel, (b) an
3 electron gun provided in a neck portion of the funnel, and (c) a deflection yoke mounted on an
4 outer surface of the funnel, wherein

5 the deflection yoke is of a bend-up-less type and comprises a saddle-shaped
6 horizontal deflection coil, a saddle-shaped vertical deflection coil, an insulating frame, and a
7 correction coil, the saddle-shaped horizontal deflection coil and the saddle-shaped vertical
8 deflection coil being provided along, respectively, an inner and an outer surface of the insulating
9 frame which insulates the deflection coils, and the correction coil being provided above the outer
10 surface of an electron gun side bend portion of the deflection coils, wherein

11 a setting member is provided integrally formed in a fixed positional relation with
12 respect to the insulating frame on the electron gun side and behind the bend portion of the
13 deflection coils, and the correction coil is set at a fixed position by a positioning fixing member
14 in front of [on] a wall surface of the setting member which faces the screen and above the outer
15 surface of the electron gun side bend portion.

1 17. (Amended) The color picture tube of Claim 15 [or 16] wherein
2 the positioning fixing member [correction coil] is structured to be freely
3 detachable in relation to the setting member.

18. (Amended) The color picture tube of Claim 15 [or 16] wherein
the correction coil has (a) a core whose leg portion points in a direction toward
the electron gun side bend portion of the deflection coil, (b) a bobbin which covers the core and
is conductive wire wound therearound; and the positioning fixing member is set at a substantially
fixed position in relation to the core [(c) a fixing member in a substantially fixed relation to the
core; and the correction coil is positioned by the fixing member being fixed to the setting
member].

New Claims 21-28 have been added.